

INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 255.0001 0122	Serial No.: 09/738,599
	Applicant(s): Nolan et al.	Confirmation No.:
	Filing Date: December 15, 2000	Group: 1645

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U.S. PATENT DOCUMENTS

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Examiner Initials	Submitter Name	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
SD		3,842,067	10/15/74	Sarantakis	530	311	
		3,862,925	1/28/75	Sarantakis et al.	530	311	
		3,972,859	08/03/76	Fujino et al.	530	313	
		4,105,602	08/08/78	Colescott et al.	524	577	
		4,341,761	07/27/82	Ganfield et al.	424	85.6	
		4,342,832	08/03/82	Goeddel et al.	435	91.41	
		4,366,246	12/28/82	Riggs	435	69.8	
		4,399,121	8/16/83	Albarella et al.	530	363	
		4,411,994	10/25/83	Gilbert et al.	435	69.7	
		4,418,149	11/29/83	Ptashne et al.	435	252.33	
		4,425,437	1/10/84	Riggs	435	320.1	
		4,427,783	01/24/84	Newman et al.	436	542	
		4,428,941	01/31/84	Galibert et al.	514	2	
		4,431,739	02/14/84	Riggs	435	252.33	
		4,431,740	02/14/84	Bell et al.	435	252.33	
		4,436,815	03/13/84	Hershberger et al.	435	34	
		4,440,859	04/03/84	Rutter et al.	435	91.41	
		4,444,887	04/24/84	Hoffman	435	373	
		4,466,917	08/21/84	Nussenzweig et al.	530	350	
		4,472,500	09/18/84	Milstein et al.	435	70.21	
		4,491,632	01/01/85	Wands et al.	435	339	
		4,493,890	01/15/85	Morris	435	7.7	
		4,683,195	04/28/87	Mullis et al.	435	6	
SD		4,757,048	07/12/88	Lewicki et al.	514	11	

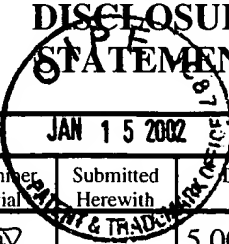
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Examiner Initial	Submitted Herewith	Document Number	Date	Name	Class	Subclass	Filing Date if appropriate
SD		5,001,230	03/19/91	Brown et al	536	23.5	
		5,035,878	07/30/91	Borch et al.	514	23.8	
	X	5,168,062	12/01/92	Stinski	435	366	
		5,580,859	12/03/96	Felgner et al.	514	44	
		5,965,142	10/12/99	Dillon et al.	424	269.1	
		6,051,416	04/18/00	Pace et al.	435	252.1	
		6,087,128	07/11/00	Nolan et al.	435	69.3	
SD	X	6,187,321	02/13/01	Nolan et al.	424	241.1	

FOREIGN PATENT DOCUMENTS

Examiner Initial	Submitted Herewith	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
SD		GB 2,007,675 A	05/23/79	United Kingdom				
		GB 2,008,123 A	05/31/79	United Kingdom				
		GB 2,121,054 A	12/14/83	United Kingdom				
		EP 103,395 A2	03/21/84	EPO				
		EP 116,201 A1	08/22/84	EPO				
		EP 120,551 A2	10/03/84	EPO				
		EP 164,556 A2	12/18/85	EPO				
SD		WO 93/02556	02/18/93	PCT				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Submitted Herewith	Document Description
SD		Abdallah et al., "Non-Viral Gene Transfer: Applications in Developmental Biology and Gene Therapy," <u>Biol. Cell</u> 85:1-7 (1995).
SD		Adelman et al., "In Vitro Deletional Mutagenesis for Bacterial Production of the 20,000-Dalton Form of Human Pituitary Growth Hormone," <u>DNA</u> 2(3):183-193 (1983).

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SD		Agüero et al., "Relative Contribution of ColV Plasmid and K1 Antigen to the Pathogenicity of <i>Escherichia coli</i> ," <u>Infect. Immun.</u> 40(1):359-368 (1983).
		Arp et al., "Piliation, Hemagglutination, Motility, and Generation Time of <i>Escherichia coli</i> that are Virulent or Avirulent for Turkeys," <u>Avian Dis.</u> 24(1):153-161 (1980).
		Barany et al., "Solid-Phase Peptide Synthesis," <u>The Peptides</u> , 2, Gross et al. eds., Academic Press, Inc., London, title page and table of contents, (1980).
		Barr et al., "7-Deaza-2'-Deoxyguanosine-5'-Triphosphate: Enhanced Resolution in M13 Dideoxy Sequencing," <u>Biotechniques</u> , 4(5):428-432 (1986).
		Barondess et al., "A bacterial virulence determinant encoded by lysogenic coliphage λ ," <u>Nature</u> 346(6287):871-4 (1990).
		Barondess, "Membrane proteins involved in cell division and lysogenic conversion," Abstract of Dissertation, Harvard University, <u>Dissertation Abstracts International</u> , Vol. 54/11-B, page 5509, (1993).
		Barondess et al., " <i>bor</i> gene of phage λ involved in serum resistance, encodes a widely conserved outer membrane lipoprotein," <u>J Bacteriol.</u> 177(5):1247-53 (1995).
		Baumann et al., "Dexamethasone Regulates the Program of Secretory Glycoprotein Synthesis in Hepatoma Tissue Culture Cells," <u>J. Cell Biol.</u> 85:1-8 (1980).
		Beck et al., "Nucleotide Sequence of the Gene <i>ompA</i> Coding the Outer Membrane Protein II* of <i>Escherichia coli</i> K-12," <u>Nuc. Acids Res.</u> 8(13):3011-3024 (1980).
		Binns et al., "Cloned fragments of the Plasmid ColV, I-K94 Specifying Virulence and Serum Resistance," <u>Nature</u> 279:778-781 (1979).
		Binns et al., "Further characterization of complement resistance conferred on <i>Escherichia coli</i> by the plasmid genes <i>traT</i> of R100 and <i>iss</i> of ColV, I-K94," <u>Infect Immun.</u> 35(2):654-9 (1982).
SD		Blattner et al., "The Complete Genome Sequence of <i>Escherichia Coli</i> K-12," <u>Science</u> 277:1453-62 (1997).

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Examiner Initials	Submitted Herein	Document Description
SD		Boswell et al., "Sequence Comparison and Alignment: the Measurement and Interpretation of Sequence Similarity," <u>Computational Molecular Biology Sources and Methods for Sequence Analysis</u> , Lesk, ed., Oxford University Press, Oxford 161-178 (1988).
		Broach, "Construction of High Copy Yeast Vectors Using 2- μ m Circle Sequences," <u>Meth. Enz.</u> 101:307-325 (1983).
		Butler et al., "Chapter 4: Diarrhoea and Dysentery in Calves," <u>Escherichia coli in Domestic Animals and Humans</u> , G.L. Gyles ed., CAB International, Wallingford, UK:91-116 (1994)
		Carpino et al., "The 9-Fluorenylmethoxycarbonyl Amino-Protecting Group," <u>J. Org. Chem.</u> 37(22):3404-3409 (1972).
		Chakrabarti et al., "Vaccinia Virus Expression Vector: Coexpression of β -Galactosidase Provides Visual Screening of Recombinant Virus Plaques," <u>Mol. Cell Biol.</u> 5(12):3403-3409 (1985).
		Chang et al., "Solid-Phase Peptide Synthesis Using Mild Base Cleavage of $N\alpha$ -Fluorenylmethoxycarbonylamino Acids, Exemplified by a Synthesis of Dihydrosomatostatin," <u>Int. J. Pep. Pro. Res.</u> 11:246-249 (1978).
		Chuba et al., "Contributions of <i>traT</i> and <i>iss</i> genes to the Serum Resistance Phenotype of plasmid Col V2-K94," <u>FEMS Microbiology Lett.</u> 37:135-140 (1986).
		Chuba, "Cloning and partial characterization of two genes, <i>traT</i> and <i>iss</i> , which mediate the serum resistance phenotype of plasmid colV2-K94," Abstract of Dissertation, Wayne State University, <u>Dissertation Abstracts International Vol. 47/12-B</u> , page 4764, (1986).
		Chuba et al., "Cloning and DNA sequence of plasmid determinant <i>iss</i> , coding for increased serum survival and surface exclusion, which has homology with lambda DNA," <u>Mol. Gen. Genet.</u> 216(2-3):287-92 (1989).
		Clewell et al., "Supercoiled Circular DNA-Protein Complex in <i>Escherichia coli</i> : Purification and Induced Conversion to an Open Circular DNA Form," <u>Proc. Natl. Acad. Sci. USA</u> 62(4):1159-1166 (1969).
SD		Clewell et al., "Nature of Col E, Plasmid Replication in <i>Escherichia coli</i> in the Presence of Chloramphenicol," <u>J. Bacteriol.</u> 110(2):667-676 (1972).

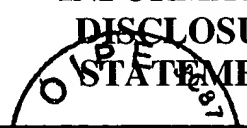
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SD		Cloud et al., "In Vitro and in Vivo Characterization of Avian <i>Escherichia coli</i> . I. Serotypes, Metabolic Activity, and Antibiotic Sensitivity," <u>Avian Dis.</u> 29:1084-1093 (1985).
		Cohen et al., "Nonchromosomal Antibiotic Resistance in Bacteria: Genetic Transformation of <i>Escherichia coli</i> by R-Factor DNA," <u>Proc. Natl. Acad. Sci USA</u> , 69(8):2110-2114 (1972).
		Cross et al., "The Relative Role of Lipopolysaccharide and Capsule in the Virulence of <i>E. coli</i> ," <u>Bacteria, Complement and the Phagocytic Cell</u> , H24, Cabello et al., eds., Springer-Verlag, Berlin, 319-334 (1988).
		Crowl et al., "Versatile Expression Vectors for High-level Synthesis of Cloned Gene Products in <i>Escherichia coli</i> ," <u>Gene</u> 38:31-38 (1985).
		De Boer et al., "The <i>tac</i> Promoter: A Functional Hybrid Derived from the <i>trp</i> and <i>lac</i> Promoters," <u>Proc. Natl. Acad. Sci. (USA)</u> 80:21-25 (1983).
		Dieffenbach et al., eds. <u>PCR Primer, A Laboratory Manual</u> , Cold Spring Harbor Library Press, title page, publisher's page and table of contents (1995).
		Donnelly et al., "Protective Efficacy of Intramuscular Immunization with Naked DNA," <u>Ann. N.Y. Acad. Sci.</u> 772:40-46 (1995).
		Ebert et al., "Role of <i>iss</i> in the Complement Resistance and Virulence of an Avian <i>Escherichia coli</i> ," North Dakota Science, Engineering, and Mathematics Poster Session, North Dakota EPSCOR, North Dakota State University, Fargo, ND, (July 30, 1997).
	X	Ebert et al., "Distribution of <i>Iss</i> Sequences Among Different Avian <i>Escherichia coli</i> ," American Veterinary Medical Association 135 Annual Convention, Baltimore, MD; Convention Program Abstract No. PP18 (July 27, 1998).
	X	Ebert et al., "Distribution of <i>Iss</i> Sequences Among Avian <i>Escherichia coli</i> Isolates," American Veterinary Medical Association 135 Annual Convention, Poster Session, Baltimore, MD (July 27, 1998).
		Edge et al., "Total Synthesis of a Human Leukocyte Interferon Gene," <u>Nature</u> 292:756-762 (1981).
SD		Erlich, ed., <u>PCR Technology</u> , Stockton Press, NY, title page, publisher's page and table of contents (1989).

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57		Fernandez-Beros et al., "Virulence-Related Genes in ColV Plasmids of <i>Escherichia coli</i> Isolated from Human Blood and Intestines," <u>J. Clin. Microbiol.</u> 28 (4):742-746 (1990).
		Ferrazza et al., "Biochemical and Immunological Characterization of an R Plasmid-Encoded Protein with Properties Resembling Those of Major Cellular Outer Membrane Proteins," <u>J. Bacteriol.</u> 144 (1):149-157 (1980).
		Fiers et al., "Complete Nucleotide Sequence of SV40 DNA," <u>Nature</u> , 273 :113-120 (1978).
		Foley et al. "Iss Protein for Use as an Immunogen," Department of Veterinary and Microbiological Sciences, North Dakota State University, abstract, Presented in the Convention Notes at the Ann. Meeting AVMA/AAAP, New Orleans, (1999).
		Foley et al. "Monoclonal Antibodies Against Iss," Department of Veterinary and Microbiological Sciences, North Dakota State University, abstract, Presented at the 80 th Ann. Meeting of the Conf. Of Research Workers in Animal Diseases, Chicago, November, (1999).
		Foley et al., "Expression and Purification of Iss Protein," Abstracts of the 99 th General Meeting of the American Society for Microbiology, Abstract No. V-15, May 30-June 3, Chicago, IL (1999).
	X	Foley et al., "Expression of <i>Iss</i> Protein," American Veterinary Medical Association 135 Annual Convention, Baltimore, MD; Convention Program Abstract No. PP26 (July 27, 1998).
	X	Foley et al., "Expression of <i>Iss</i> Protein," American Veterinary Medical Association 135 Annual Convention, Poster Session, Baltimore, MD (July 27, 1998).
		Foley et al., " <i>Iss</i> from a virulent avian <i>Escherichia coli</i> ," <u>Avian Dis.</u> , 44 (1):185-191 (2000).
		Freshney ed., <u>Animal Cell Culture: a Practical Approach</u> , IRL Press Limited, Oxford, England, title page, publisher's page and table of contents (1986).
		Gait ed., <u>Oligonucleotide Synthesis: a Practical Approach</u> , IRL Press Limited, Oxford, England, title page, publisher's page and table of contents (1984).
57		Gilson et al., "Four Plasmid Genes Are Required for Colicin V Synthesis, Export; and Immunity," <u>J. Bacteriol.</u> 169 (6):2466-70 (1987).

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SD		Glover ed., <u>DNA Cloning: a Practical Approach, Volumes I and II</u> , IRL Press Limited, Oxford, England, title page, publisher's page and table of contents (1985).
		Goeddel et al., "Synthesis of Human Fibroblast Interferon by <i>E. Coli</i> ," <u>Nucleic Acid Res.</u> 8(18):4057-74 (1980).
		Goldman et al., "Serum-Resistant Mutants of <i>Escherichia coli</i> 0111 Contain Increased Lipopolysaccharide, Lack an O Antigen-Containing Capsule, and Cover More of their Lipid A Core with O Antigen," <u>J. Bacteriol.</u> 159(3):877-882 (1984).
	X	Goodwin et al., "The 3'-flanking sequence of the bovine growth hormone gene contains novel elements required for efficient and accurate polyadenylation," <u>J Biol Chem.</u> , 267(23):16330-4 (1992).
		Graham et al., "A New Technique for the Assay of Infectivity of Human Adenovirus 5 DNA," <u>Virology</u> 52:456-67 (1973).
		Gross, "Colibacillosis," <u>Disease of Poultry 8th ed.</u> , Hofstad et al., eds., Iowa State University Press, Ames, IA:270-278 (1984).
		Gross "Diseases Due to <i>Escherichia coli</i> in Poultry," <u>Escherichia coli in Domestic Animals and Humans</u> , Gyles ed., CAB International, Wallingford, UK. pp. 237-259 (1994).
		Grunstein et al., "Colony Hybridization: A Method for the Isolation of Cloned DNAs that Contain a Specific Gene," <u>Proc. Natl. Acad. Sci. USA</u> 72(10):3961-3965 (1975).
		Gunzer et al., "Expression of A and B subunits of Shiga-like toxin II as fusions with glutathione S-transferase and their potential for use in seroepidemiology," Abstract, <u>J. Clin. Microbiol.</u> , 31(10):2604-2610 (1993).
		Gyles, " <i>Escherichia coli</i> ," Chapter 15 of <u>Pathogenesis of Bacterial Infections in Animals 2d.ed.</u> , Gyles et al., eds., Iowa State University Press, Ames, IA:164-187 (1993).
SD		Hames et al., eds. <u>Nucleic Acid Hybridization: a Practical Approach</u> , IRL Press Limited, Oxford, England, title page, publisher's page and table of contents (1984).

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57		Hämmerling et al., eds., <u>Monoclonal Antibodies and T-cell Hybridomas</u> , Elsevier/North-Holland Biomedical Press, New York, title page, publisher's page and table of contents (1981).
		Hartley et al., "Toxic Metabolites of <i>Aspergillus Flavus</i> ," <u>Nature</u> , 198:1056-1058 (1963).
	X	Heckert et al., "An enhanced plasmid expression vector for avian DNA vaccination," XXI World's Poultry Congress, Montreal, Canada, August 20-24 (2000).
		Hess et al., "Cooperation of Glycolytic Enzymes," <u>Adv. Enzyme Reg.</u> 7:149-167 (1968).
		Hinnen et al., "Transformation of Yeast," <u>Proc. Natl. Acad. Sci.(USA)</u> 75(4):1929-33 (1978).
		Hiss Jr., "A Contribution to the Physiological Differentiation of Pneumococcus and Streptococcus, and to Methods of Staining Capsules," <u>J. Exp. Med.</u> 6:317-345 (1905).
		Hitzeman et al., "Isolation and Characterization of the Yeast 3-Phosphoglycerokinase Gene (PGK) by an Immunological Screening Technique," <u>J. Biol. Chem.</u> 255(24):12073-80 (1980).
		Holland et al., "Isolation and Identification of Yeast Messenger Ribonucleic Acids Coding for Enolase, Glyceraldehyde-3-phosphate Dehydrogenase, and Phosphoglycerate Kinase," <u>Biochemistry</u> 17(23):4900-07 (1978).
		Holland et al., "The Primary Structures of Two Yeast Enolase Genes," <u>J. Biol. Chem.</u> 256(3):1385-95 (1981).
		Horne et al., "Cloning and sequencing of the <i>iss</i> gene from a virulent avian <i>Escherichia coli</i> ," <u>Avian Dis.</u> 44(1):179-84 (2000).
		Horne et al., "Sequence of <i>iss</i> from <i>Escherichia coli</i> causing avian colibacillosis", submitted (10 January 1998) Dept. of Vet. & Micro. Sci., North Dakota State University, Van Es Hall, Fargo, ND.
57		Ike et al., "Serum Resistance and Aerobactin Iron Uptake in Avian <i>Escherichia coli</i> by Mediated by Conjugative 100-Megadalton Plasmid," <u>J. Vet. Med. Sci.</u> 54(6):1091-1098 (1992).

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59	x	Invitrogen Corporation, "pVAX1, Catalog No. V260-20," Carlsbad, (undated).
		Jay et al., "Chemical Synthesis of a Biologically Active Gene for Human Immune Interferon- γ ," <u>J. Biol. Chem.</u> , 259(10):6311-6317 (1984).
		Kennett et al, eds., <u>Monoclonal Antibodies Hybridomas: A New Dimension in Biological Analyses</u> , Plenum Press, New York, title page, publisher's page and table of contents (1980).
		Kottom et al., "Further Characterization of a Complement-Sensitive Mutant of a Virulent Avian <i>Escherichia coli</i> Isolate," <u>Avian Dis.</u> 41:817-823 (1997).
		Labarthe et al., "Quantitative study of capillary and venous bacterial diffusion in experimental bacteremia in chickens," Abstract, <u>Ann. Inst. Pasteur Microbiol.</u> , 137B(3):317-324 (1986).
		Lee et al., "Comparison of a Quantitative Microtiter Method, a Quantitative Automated Method, and the Plate-Count Method for Determining Microbial Complement Resistance," <u>Avian Dis.</u> 35:892-896 (1991).
	X	Levitt et al., "Definition of an efficient synthetic poly(A) site," <u>Genes Dev.</u> 3(7):1019-25 (1989).
	X x	Lowie et al., <u>DNA Vaccines Methods and Protocols</u> , Humana Press, Totowa, NJ, 145-220 (2000).
		Luckow et al., "High Level Expression of Nonfused Foreign Genes with <i>Autographa californica</i> Nuclear Polyhedrosis Virus Expression Vectors," <u>Virology</u> 170:31-39 (1989).
		Mackett et al., "General Method for Production and Selection of Infectious Vaccinia Virus Recombinants Expressing Foreign Genes," <u>J. Virol.</u> 49(3):857-64 (1984).
		Marmur, "A Procedure for the Isolation of Deoxyribonucleic Acid from Microorganisms," <u>J. Mol. Biol.</u> 3:208-218 (1961).
		Mather, "Establishment and Characterization of two Distinct Mouse Testicular Epithelial Cell Lines," <u>Biol. Reprod.</u> 23:243-252 (1980).
59		Mather et al., "Culture of Testicular Cells in Hormone-Supplemented Serum-Free Medium," <u>Annals N.Y. Acad. Sci.</u> 383:44-68 (1982).

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SD		Maxam et al., "Sequencing End-Labeled DNA with Base-Specific Chemical Cleavages," <u>Methods in Enzymology</u> , Grossman et al., eds., 65:499-560 (1980)
		Maxwell, <u>Analyzing Qualitative Data</u> , Methuen Co., London, title page, publisher's page and table of contents (1961).
		Mayer et al., eds. <u>Immunochemical Methods in Cell and Molecular Biology</u> Academic Press Limited, London, title page, publisher's page and table of contents (1987).
		Meienhofer, "Peptide Synthesis: a Review of the Solid-Phase Method," <u>Hormonal Proteins and Peptides Vol. 2</u> Li, ed. Academic Press, London, title page and table of contents (1973).
		Merrifield, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide," <u>J. Am. Chem. Soc.</u> 85:2149-2154 (1963).
		Messing et al., "A System for Shotgun DNA Sequencing," <u>Nucleic Acids Res.</u> 9(2):309-321 (1981).
		Mims, <u>The Pathogenesis of Infectious Disease</u> , 2 nd ed., Academic Press Limited, London, Preface and table of contents only. (1982).
		Minshew et al., "Association of Hemolysin Production, Hemagglutination of Human Erythrocytes, and Virulence for Chicken Embryos of Extraintestinal <i>Escherichia coli</i> Isolates," <u>Infect. Immun.</u> 20(4):50-54 (1978).
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INFORMATION DISCLOSURE STATEMENT JAN 15 2002	Atty. Docket No.: 255.0001 0122	Serial No.: 09/738,599
	Applicant(s): Nolan et al.	Confirmation No.:
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